

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2005/000139

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 H04L 12/24**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04L , H04Q , H04M , G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for Inventions since 1975  
Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/102098 A1 (TANTIVY COMM INC.) 19 DEC 2002 see the whole documents	1 - 2
A	WO 03/107698 A1(UTSTARCOM Inc) 24 DEC 2003 see the whole documents	1 - 2
A	US 2002-197654 A1 (Narayan P.) 26 DEC 2002 see the whole documents	1 - 2
A	KR 1999-56549 A1 (Samsung ) 15 JUL 1999 see the whole documents	1 - 2

Further documents are listed in the continuation of Box C.

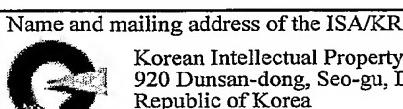
See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
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 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search  
25 FEBRUARY 2005 (25.02.2005)

Date of mailing of the international search report  
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Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SHIN, Sung Kil



Telephone No. 82-42-481-5688

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2005/000139

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02/102098 A1	19 DEC 2002	WO 01/58043 A3 US 6,151,332 A US 6,388,999 B1 US 6,452,913 B1 US 6,526,281 B1 JP 2003-529979 T2	18 APR 2002 21 NOV 2000 14 MAY 2002 17 SEP 2002 25 FEB 2003 7 OCT 2003
WO 03/107698 A1	24 DEC 2003	WO 03/77473 A1 US 2004-95881 A1 KR 2005-8822 A EP 01483866 A1	18 SEP 2003 20 MAY 2004 21 JAN 2005 08 DEC 2004
US 2002-197654 A1	26 DEC 2002	WO 99/35865 C2 KR 2001-33025 JP 14501353 EP 1040691 A1	23 SEP 1999 25 APR 2001 15 JAN 2002 4 OCT 2000
KR 1999-56549 A1	15 JUL 1999	NONE	